PATENT ABSTRACTS OF JAPAN

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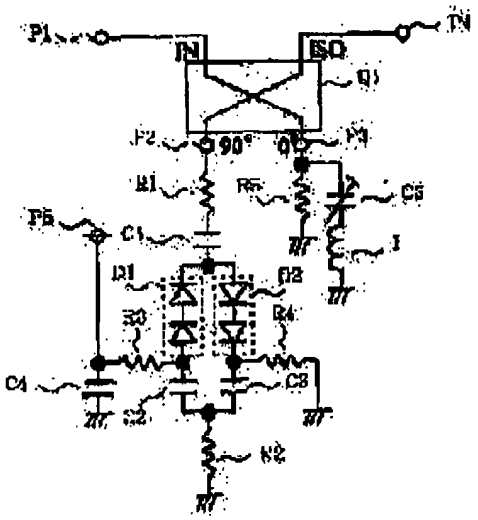
(54) DISTORTION COMPENSATION DEVICE

(57)Abstract:
PROBLEM TO BE SOLVED: To miniaturize a device and to reduce power consumption in the distortion compensation device compensating tertiary distortion caused in an amplifier.
SOLUTION: A distortion compensation device is constituted of a 3dB coupler Q1 having four terminals. A first terminal P1 inputs a signal inputted to an amplifier or outputted from the amplifier. A second terminal P2 is provided with a tertiary distortion generator generating tertiary distortion having amplitude canceling tertiary distortion, which is caused in the amplifier in accordance with an input signal. A third terminal P3 is provided with a phase adjusting unit adjusting the phase of the input signal and setting a phase difference between the input signal and tertiary distortion caused in the tertiary distortion generator to be a phase difference canceling tertiary distortion caused in the amplifier. A fourth terminal P4 compensates tertiary distortion generated in the amplifier by synthesizing the tertiary distortion caused in the tertiary distortion generator with the input signal adjusted by the phase adjusting unit and outputting it.



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